After Final Office Action of February 13, 2009

DO NOT ENTER: /K.J./

Docket No.: 30572/41894

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A magnesium-containing, hydrogen-storing material that contains an organometallic compound of the metals Zr or V which displays a nanocrystalline structure, as a catalyst for hydrating or dehydrating the same.

2. (Canceled)

- 3. (Previously presented) A magnesium-containing material according to claim 1 wherein the material displays a nanocrystalline structure.
 - 4. (Canceled)
- 5. (Previously presented) A magnesium-containing material according to claim 1, wherein the organometallic compound content lies in the region between 0.005 mol% and 50 mol%.
- 6. (Previously presented) A magnesium-containing material according to claim 5, wherein the organometallic compound content lies in the region between 0.005 mol% and 20 mol%.
- 7. (Previously presented) A method for the manufacture of a magnesium-containing material according to claim 1, wherein the magnesium-containing material containing the organometallic compound is subjected to a mechanical grinding process.
- 8. (Previously presented) A method according to claim 7, wherein the duration of the grinding process is 1 minute to 200 hours.
- 9. (Previously presented) A method according to claim 8, wherein the duration of the grinding process lies in the region from 20 hours to 100 hours.
- 10. (Previously presented) A method according to claim 7 wherein the grinding process is performed in an inert gas atmosphere.
- 11. (Previously presented) A method according to claim 10, wherein the inert gas is argon.

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12. (Previously presented) A method according to claim 7 wherein the grinding

process is performed with the addition of an organic solvent.

13. (Previously presented) A magnesium-containing material according to claim 2,

wherein the material displays a nanocrystalline structure.

14. (Previously presented) A magnesium-containing material according to claim 2,

wherein the organometallic compound content lies in the region between 0.005 mol% and 50

mol%.

15. (Previously presented) A magnesium-containing material according to claim 4,

wherein the organometallic compound content lies in the region between 0.005 mol% and 50

mol%.

16. (Previously presented) A method according to claim 9, wherein the grinding

process is performed in an inert gas atmosphere.

17. (Previously presented) A method according to claim 8, wherein the grinding

process is performed with the addition of an organic solvent.

18. (Previously presented) A method according to claim 9, wherein the grinding

process is performed with the addition of an organic solvent.

19. (Previously presented) A method according to claim 10, wherein the grinding

process is performed with the addition of an organic solvent.

20. (Previously presented) A method according to claim 11, wherein the grinding

process is performed with the addition of an organic solvent.

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